

t30\_card\_fil  
 (TMKQsPqd9QUMxLcS1xwkLGaW74TUBM7euH3)

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Let  $v1\_finset.1 : \iota \Rightarrow o$  be given. Let  $v1\_card.1 : \iota \Rightarrow o$  be given. Let  $v6\_card\_fil : \iota \Rightarrow o$  be given. Let  $v4\_card\_fil : \iota \Rightarrow o$  be given. Let  $v1\_card.5 : \iota \Rightarrow o$  be given. Let  $v2\_card.1 : \iota \Rightarrow o$  be given. Let  $v5\_card\_fil : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.((\neg v1\_finset.1 X0) \wedge (v1\_card.1 X0)) \Rightarrow ((v4\_card\_fil X0) \Leftrightarrow ((v1\_card.5 X0) \wedge (v2\_card.1 X0))) \quad (1)$$

Assume the following.

$$\forall X0.((\neg v1\_finset.1 X0) \wedge ((v1\_card.1 X0) \wedge (v6\_card\_fil X0))) \Rightarrow ((\neg v1\_finset.1 X0) \wedge ((v1\_card.1 X0) \wedge ((v1\_card.5 X0) \wedge (v5\_card\_fil X0)))) \quad (2)$$

Assume the following.

$$\forall X0.((\neg v1\_finset.1 X0) \wedge ((v1\_card.1 X0) \wedge (v5\_card\_fil X0))) \Rightarrow ((\neg v1\_finset.1 X0) \wedge ((v1\_card.1 X0) \wedge (v2\_card.1 X0))) \quad (3)$$

**Theorem 1**

$$\forall X0.((\neg v1\_finset.1 X0) \wedge (v1\_card.1 X0)) \Rightarrow ((v6\_card\_fil X0) \Rightarrow (v4\_card\_fil X0))$$